

GILA RIVER BASIN

09489700 BIG BONITO CREEK NEAR FORT APACHE, AZ

LOCATION.--Lat 33°40'02", long 109°50'46", in NE¹/₄ sec.28, T.4 N., R.24 E. (unsurveyed), Apache County, Hydrologic Unit 15060101, in Fort Apache Indian Reservation, near right bank on downstream side of pier of highway bridge, 1.9 mi upstream from Tonto Creek, 3.7 mi south-east of Chino Springs, and 12 mi southeast of Fort Apache.

DRAINAGE AREA.--119 mi².

PERIOD OF RECORD.--October 1957 to Apr. 1, 1981 (discontinued). Apr. 2 to Sept. 30, 1981 (discharge measurements only). Prior to October 1969 published as "Big Bonita Creek near Fort Apache."

REVISED RECORDS.--WRD Ariz. 1969: 1967.

GAGE.--Water-stage recorder. Altitude of gage is 5,910 ft, by barometer.

REMARKS.--Records fair except those for periods of no gage-height record, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,510 ft³/s Dec. 18, 1978, gage height, 9.04 ft; from rating curve extended above 640 ft³/s on basis of slope-area measurement at gage height 7.77 ft; minimum daily, 4.2 ft³/s Nov. 30, 1975.

Annual peak discharges

Water year	Date	Annual peak discharge (ft ³ /s)	Discharge codes	Water year	Date	Annual peak discharge (ft ³ /s)	Discharge codes
1958	03-22-58	1,120		1970	09-06-70	560	
1959	08-15-59	1,200		1971	09-01-71	312	
1960	03-27-60	356		1972	12-26-71	1,090	
1961	04-06-61	83		1973	10-20-72	1,870	
1962	04-17-62	710		1974	08-02-74	194	
1963	08-26-63	557		1975	04-26-75	453	
1964	08-14-64	885		1976	02-10-76	194	
1965	01-08-65	973		1977	08-19-77	243	
1966	12-30-65	1,640		1978	03-03-78	¹ 2,870	
1967	08-12-67	448		1979	12-18-78	¹ 4,510	
1968	04-16-68	426		1980	02-15-80	3,440	
1969	04-01-69	678		1981	04-01-81	153	

¹Highest since 1952.

Basin characteristics

Main channel slope (ft/mi)	Stream length (mi)	Mean basin elevation (ft)	Forested area (percent)	Soil index	Mean annual precipitation (in)	Rainfall intensity, 24-hour	
						2-year (in)	50-year (in)
106	33.5	7,920	95.0	3.0	27.9	2.5	4.8

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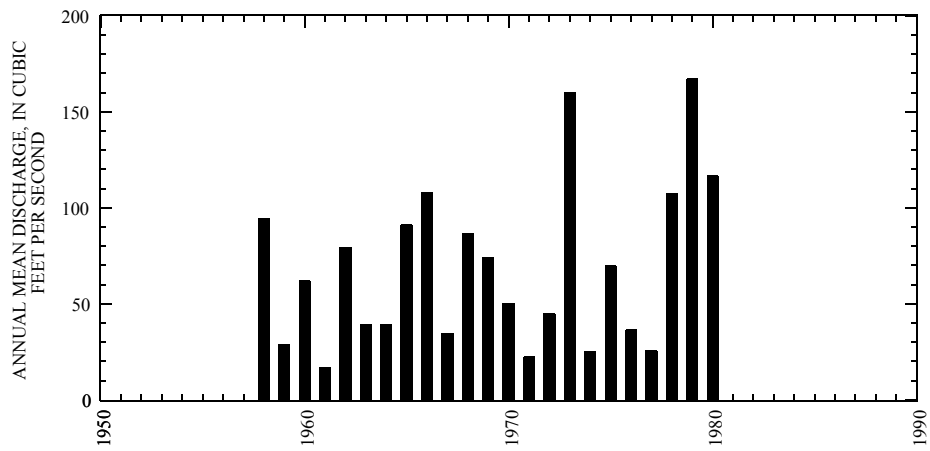
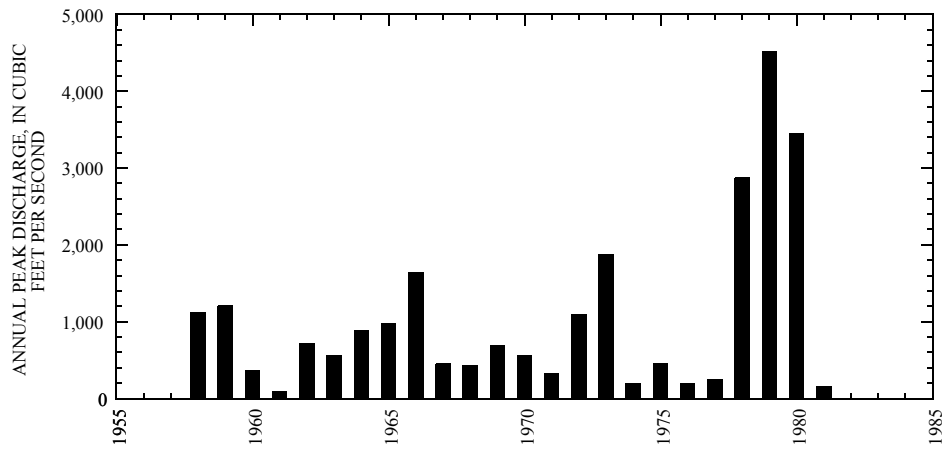
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MEAN MONTHLY AND ANNUAL DISCHARGES 1958-80							MAGNITUDE AND PROBABILITY OF ANNUAL LOW FLOW BASED ON PERIOD OF RECORD 1959-81						

Reliability of values in column is uncertain, and potential errors are large.

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